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PATENT
Docket No. Kraml 5 (3037-4222)

IN THE UNITED STATES PATENT & TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS & INTERFERENCES

Mark H. KRAML :
Serial No: 09/245,101 : Group Art Unit: 2635
Filed: January 21, 1999 : Examiner: W. Bangachon
For: USING PAGING OR SATELLITE PAGING TO TRIGGER REMOTE
DEVICES

LETTER REGARDING APPEAL BRIEF

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Commissioner for Patents
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Sir:

Please submit the attached pages for the present pages 8 and 9 in the Appeal Brief filed July 1, 2004, in the above-designated matter. The attached pages provides the Summary of the Invention with reference to the specification by page and line number, as requested by 37 CFR 1.192(c)(5). No new matter has been indicated in the attached pages.

AUTHORIZATION:

Applicant does not believe any fees are due with this Submission. However, the Commissioner is hereby authorized to charge any additional fees which may be required for the timely consideration of this amendment under 37 C.F.R. §§ 1.16 and 1.17, or credit any overpayment to Deposit Account No. 13-4503, Order No. KRAML 5 (3037-4221).

Respectfully submitted,
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V. SUMMARY OF THE INVENTION

The present invention uses an existing paging or satellite paging system to send trigger signals or commands to operate remotely-located electronic or mechanical devices. Page 1, Lines 2 – 4. Either numeric-only or alphanumeric paging systems may be employed. In one embodiment, as shown in Figure 1, the invention has a paging receiver 110 capable of receiving paging or satellite paging signals 121. One or more PINs may be employed for security purposes. Page 4, Lines 21 – 26. The paging message typically contains one or more pre-set commands 123, trigger signals 124, or command strings 125.

As shown in Figure 1, the paging message is received by the paging receiver 110 into an optional signal buffer 120 which provides the received message compare function 130. The message compare function matches each component of the received paging message to a set of one or more known commands and sends at least one signal or command, as determined by the result of the matching process, to the command signal generator 140. The command signal generator is prompted by each signal or command received from the message compare function to send out a signal or command that causes the desired action to take place at or upon the target device 150. Page 7, Lines 20 – 25. This signal or command could be a trigger signal for triggering an electronic or mechanical action, or could be a computer command that causes an operation to be performed in a software-controlled component of the target device. The command may include a minimum duration of action component (e.g. that a voltage is to be applied for a minimum of 30 seconds) in order to ensure that a particular action is only performed in response to a receipt of a bonafide command. Page 8, Lines 13 -19. In such a case, the target device would be set to only respond to the trigger if the trigger lasted at least a specified duration. Similarly, a particular duration may be specified between the performance of the individual components of a sequence of operations or commands. In an alternate embodiment, the command signal generator is not present, with one or more command or trigger signal being directly generated by the message compare function as the result of the comparison. Page 9, lines 7 – 15.

Another alternate embodiment of the invention allows responses to be generated by the system and/or to be forwarded from the target device back to the initiating party. Page 9, Lines 7 – 15. In this embodiment, shown in Figure 2, the paging message 221 is received by a two-way paging transceiver 210 into an optional signal buffer 220. The received message 221 is provided to the message compare function 230, where it is compared with a set of one or more known commands. Page 9, lines 22-24. The message compare function sends at least one signal or command 231 determined by the result of the matching process to either the optional command signal generator 240 or the target device 250. The command signal generator 240, if present, is caused by each signal or command received from the message compare function 230 to send out a signal or command that causes the desired action to take place at the target device 250. Page 10, Lines 1 – 2.

In this embodiment, either the target device 250 has the capability of generating one or more signals or other messages in response to the commands received, or the system has the capability of sensing the state of the target device after receipt of the commands. Page 10, Lines 3 – 6. If there is a response generation function that is integral to the target device, the target device provides one or more responses to the received commands. These responses may be sent to the optional signal buffer 220 or directly to the paging transceiver if the signal buffer is not present, or may be received and modified by a response generation function 260 that is part of the system of the invention. Page 10, Lines 3 – 11. Alternatively, the response generation function 260 may itself generate one or more responses based on a sensing of the state of the target device 250 after execution of the received commands. Page 10, Lines 11- 13

Responses are then relayed from the optional signal buffer 220 or directly from the target device 250 or response generation function 260 back to the initiator via the paging transceiver 210. Responses may be relayed either at the completion of the execution of all received commands or after the execution of each, or certain specific ones, of the commands in a multi-command sequence, providing feedback to the initiator as the command sequence is processed. Page 10, Lines 20 – 25. Finally, the initiator may receive an indication of the success or failure of the entire sequence of operations, or, in a more sophisticated system may receive data or other information produced or collected by the target device. Page 11, Lines 8 – 10.